

Re: LEED Documentation for HSS

Bull Moose Tube Company utilizes steel produced from the basic oxygen furnace (BOF) process in the production of Hollow Structural Section tube in our Elkhart, Indiana facility and a combination of steel produced from the BOF process and Electric Arc Furnace (EAF) process in the production of Hollow Structural Section tube in our Trenton, Georgia facility.

A Steel Recycling Institute study, in conjunction with a study by Fordham University, calculated the recycled content of steel from BOF mills and EAF mills as follows:

#### **BOF** mills:

Total Recycled Content:

31.7%

- - Post-consumer recycled content 65%
- -- Post-industrial recycled content 35%

#### EAF mills:

Total Recycled Content:

95.5%

- -- Post-consumer recycled content 60%
- - Post-industrial recycled content 40%

Tubing provided by our Masury, OH plant is produced from 100% BOF steel coils. Tubing provided by our Chicago, IL plant is produced from 50% BOF and 50% EAF steel coils.

Tubing provided by our Gerald, MO plant is produced from 80% BOF and 20% EAF steel coils.

Tubing provided by our Burlington, ON plant is produced from 65% EAF and 45% BOF steel coils.

The above total recycled content conforms to the general experience indicated by our steel suppliers.

I trust this information fulfills your request.

Randy Bishop Business Development Manager

# **CHAPARRAL**

Chaparral Steel - 300 Ward Rd. - Midlothian, Texas 75065-9651 - 972,775,8241 - www.chapusa.com

To Whom It May Concern:

Per the project specifications, the following information has been provided for your use in backing up the USGBC's (United Green Building Council) LEED (Leadership in Energy and Environmental Design) version 2.1 requirements including the certification letter.

Chaparral Steel complies with the minimum post-industrial/post-consumer recycled content requirements for Materials and Resources Credits 4.1 and 4.2.

Recycled Steel Scrap Content, Steel-Making Process

Recycled steel scrap provides greater than 90% of the raw material for the Electric Arc Furnaces (EAF) production of structural steel at Chaparral Steel.

Of the greater than 90% recycled steel scrap content, approximately 75% to 80% would be post-consumer generated with the balance being post-industrial generated material.

Chaparral Steel utilizes the Electric Arc Furnace/Continuous Casting method in the production of steel products. Fluxes and alloys may be added to the EAF at the end of its melt cycle and are added to the ladle upon tapping the EAF to establish the chemistry of the heat of steel.

Chaparral Steel may also help your project in achieving the LEED Materials and Resources credits 5.1 and 5.2. Depending on your project's location and facility supplying your project, Chaparral may be within the LEED required radius of 500 miles. Chaparral's manufacturing facilities are located in Midlothian Texas and Petersburg Virginia.

Tom L Harrington

Gen. Manager - Quality Engineering

Chaparral Steel 07/13/2005



### Gerdau Ameristeel Steel Mills Scrap Origin

## To Whom It May Concern:

Each Gerdau Ameristeel Steel Mill has hundreds of scrap suppliers. We do not routinely track which suppliers provided the scrap for any particular batch of steel. However, in general, at least 80% to 90% or more of the scrap we use comes from suppliers located within approximately 200 miles of our mills. All Gerdau Ameristeel merchant bar and rebar products are produced from 100% recycled scrap.

Sincerely,

Gerdau Ameristeel

Markon

Bhaskar Yalamanchili

**Director of Corporate Quality** 



#### LEEDS CERTIFICATION

Independence Tube Corporation utilizes hot band steel coils in the production of our HSS tubing products. The percentage of recycled content in these coils will be dependent on whether the material has been produced from the basic oxygen furnace (BOF) or the electric arc furnace (EAF) methods.

According to a recent Steel Recycling Institute study (<u>www.recycle-steel.org</u>), the average percentage of total recycled content of steel from BOF producers is 31.0% and EAF producers is 96.4%.

As a general rule, tubing provided from Independence Tube Corporation will be produced from 75% BOF coils and 25% EAF coils. These percentages change from time to time depending on market conditions, availability, etc. The request of using recycled material would have to be known when the tubing is ordered so that we can check for availability of steel, supplier of steel and specifically allocate the coil to the order.

Please call if you have any questions.

John Tassone Manager of Marketing

> 6226 West 74<sup>th</sup> Street Chicago, Illinois 60638 800-376-6000 FAX - 708-563-1950 www.independencetube.com

# MARLYN STEEL DECKS, INC. 6808 HARNEY ROAD

### To Whom It May Concern:

Deck produced by Marlyn Steel Decks, Inc. is manufactured in Tampa Florida from hot dipped galvanized steel coils conforming to ASTM A653 structural quality grades 33, 37, 40, 50 or 80 or from cold rolled steel conforming to ASTM A611 grade C, D or E.

The majority of steel used by Marlyn is from United States Steel in Fairfield, Al. There are two processes for making steel. The Basic Oxycon Furnace (BOF) process which uses a minimum of 25% recycled steel and Electric Arc Furnace process that uses virtually 100% recycled steel. Marlyn utilizes steel from both processes.

Should you need additional information, please do not hesitate to call.

Sincerely,

Rick R. James President

# NUCOR-YAMATO STEEL CO.

Post Office Box 1228 + Blytheville, Arkansas 72316 + Telephone 870/762-5500 + Fax 870/763-4681

## Subject: Recycled content of Nucor-Yamato Steel Company structural products

Nucor-Yamato Steel produces all of its structural steel products using the electric arc furnace process that uses ferrous scrap (recycled steel) as the primary feedstock. In order to meet our production goals each year, Nucor-Yamato recycles/consumes approximately 2.5 million tons of steel. The requirement for this amount of raw material makes Nucor-Yamato the largest recycler of steel in the state of Arkansas.

Over 95% of the electric arc furnace charge consists of various types of recycled steel. For LEED-NC v2.1, over 80% is "post-consumer" and over 15% is "post-industrial". (For LEED-NC v2.2, "post-consumer" is over 80%, but the 15% component is now called "pre-consumer".) The balance of the metallic charge is made up of pig iron, which is produced from iron ore. The majority of pig iron consumed as a ferrous scrap substitute at Nucor-Yamato Steel is sourced from outside the USA and purchased directly by us. The percentage of individual types of ferrous scrap and pig iron may vary and is based upon market fluctuation in scrap pricing and the need to provide the desired properties to meet material specifications.

The David Joseph Company provides almost all of the ferrous scrap consumed by Nucor-Yamato Steel Company. The David Joseph Company reports that at over sixty percent of Nucor-Yamato's recycling material (scrap iron and steel) originates from within a 500-mile radius of Little Rock, Arkansas. In 2005, about 1,200,742 tons of ferrous scrap was consumed at Nucor-Yamato Steel from within this radius.

If we may be of further assistance to you, or should you require additional information, please feel free to contact us.

Best Regards.

Gary Pennell

Chief Metallurgist

(870) 762-7145 (direct)